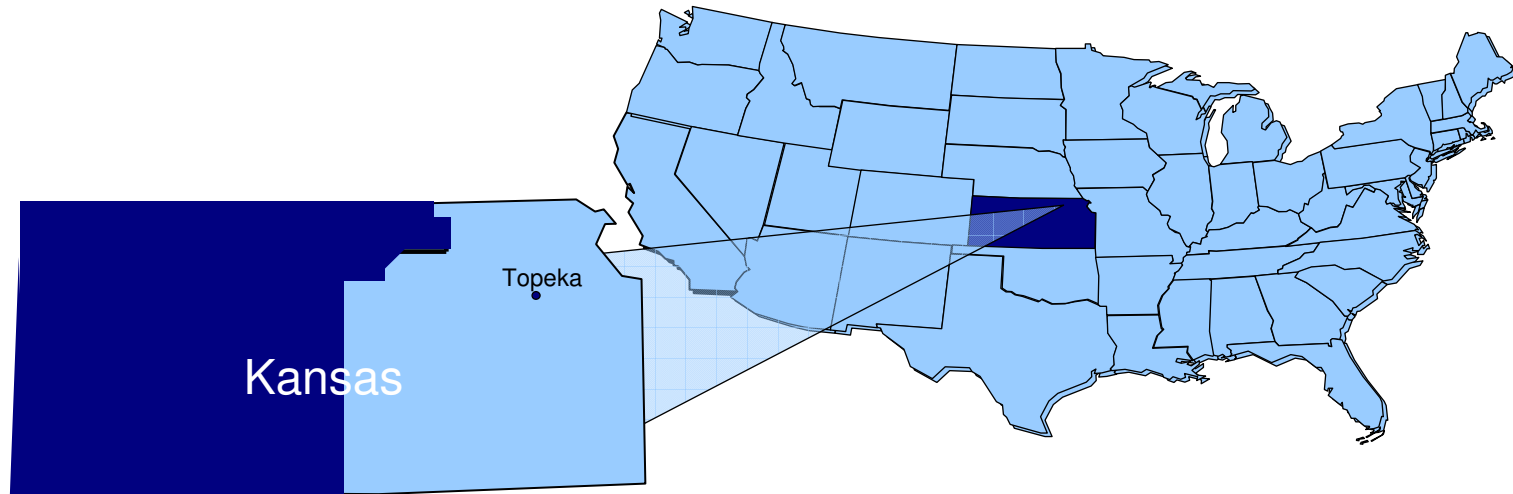




One Utility's Perspective Of Future Transmission

October 6, 2009

Vertically Integrated Kansas Utility



■ Key Operational Facts:

- ☞ > 670,000 customers
- ☞ More than 7,000 MW of generation
- ☞ 11,000 sq mile service territory
- ☞ 33,000 miles of Transmission & Distribution
- ☞ ● 2,400 employees
- ☞ Kansas retail market remains fully regulated

Westar's Transmission

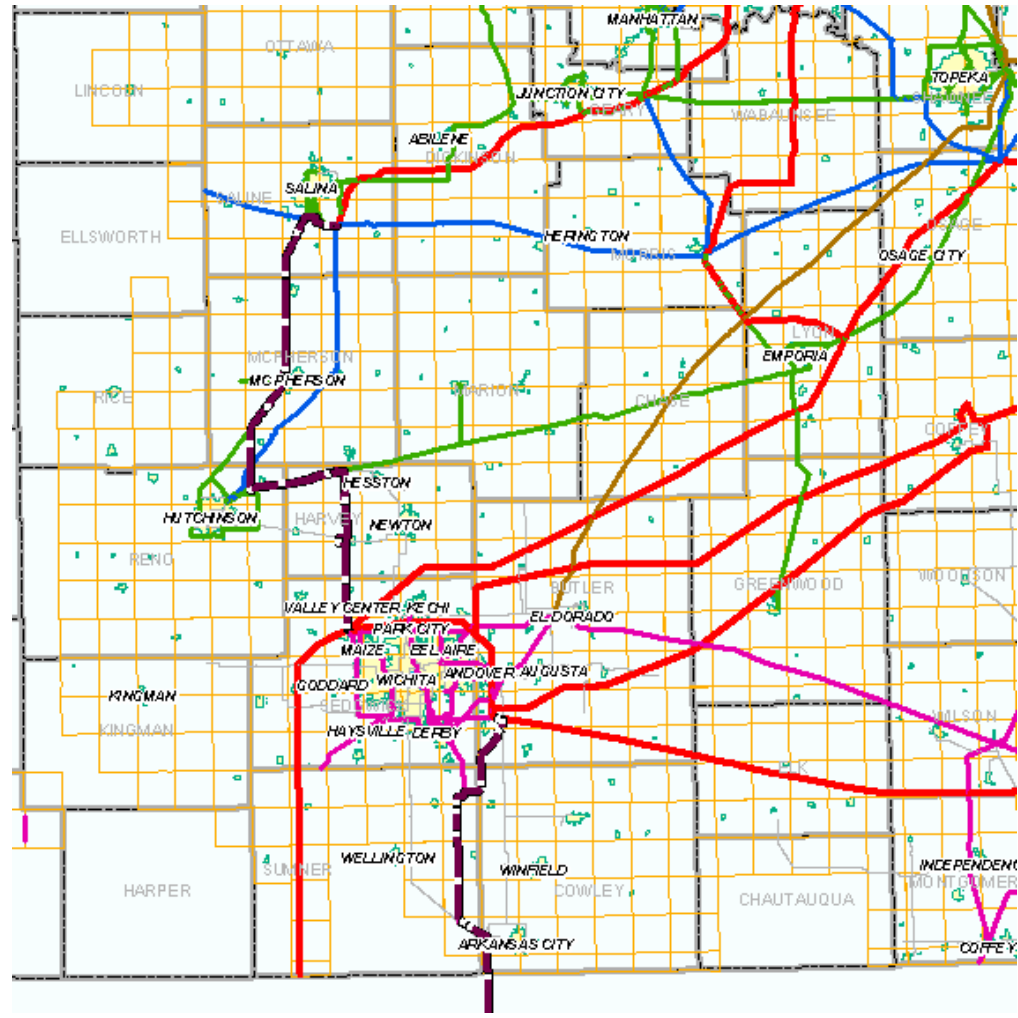


- > 4300 miles of transmission 69 kV and above
- Member of Southwest Power Pool (SPP)
 - ☞ SPP Transmission Tariff Member
 - ☞ SPP Regional Entity Member for Reliability
- 2009 Transmission Construction budget - \$127 million
- 2010 Transmission Construction budget - \$205 million
- Two Major 345 kV projects
 - ☞ Wichita to Hutchinson to Salina 345 kV line
 - ☞ Wichita to Oklahoma 345 kV line

Current Transmission Projects



- Wichita to Hutchinson
 - ☞ ● 40 miles
 - ☞ ● \$100 M
 - ☞ In-service: 12/2008
- Hutchinson to Salina
 - ☞ ● 52 miles
 - ☞ In-service: 10/2010
- Wichita to Oklahoma
 - ☞ ● 50 miles
 - ☞ ● \$ 90 M
 - ☞ In-service: 6/2012
- Eliminate 2 of the most constrained paths in SPP
- Other significant projects “inside regional footprint”



Prairie Wind Transmission



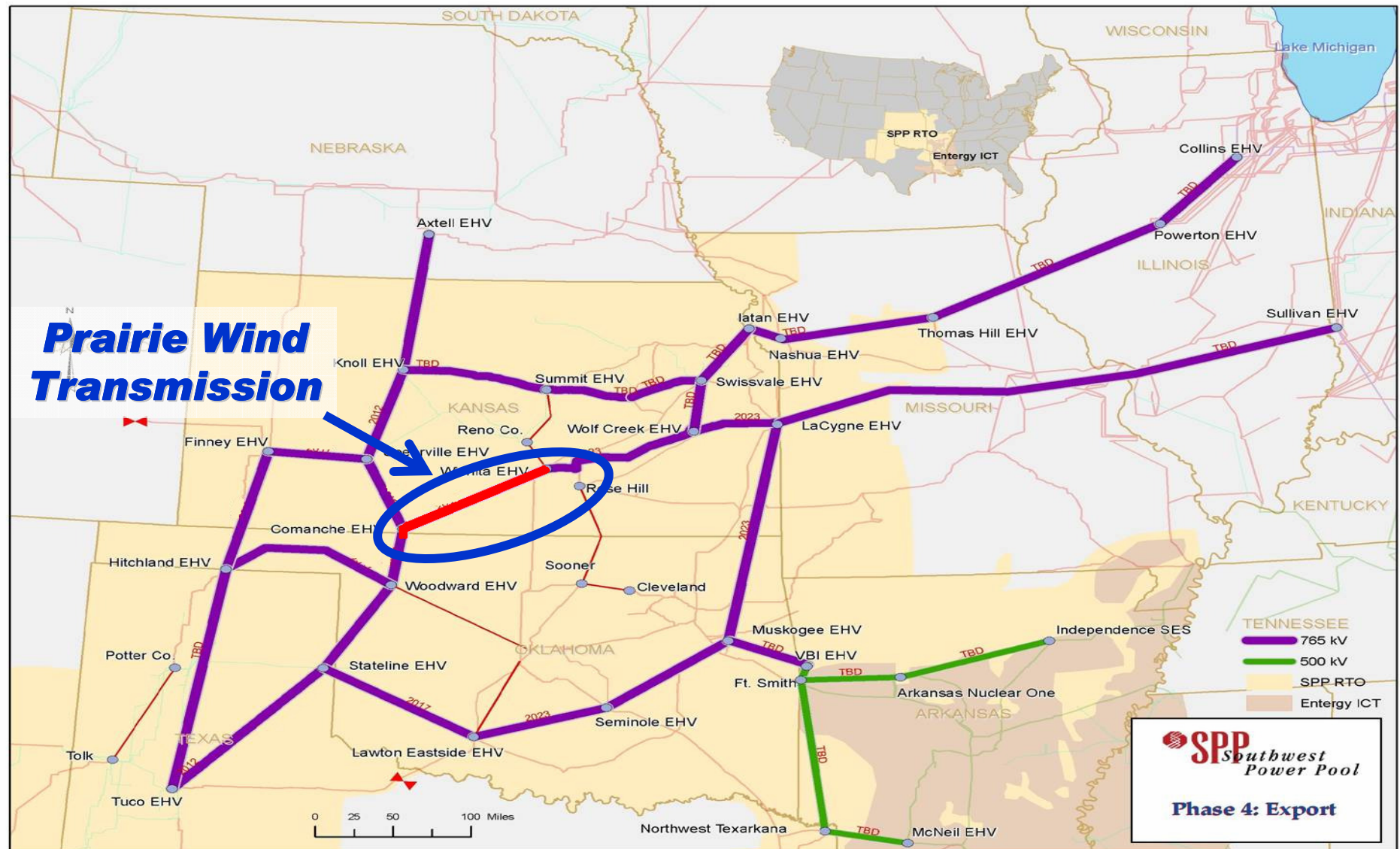
- Joint venture between Westar and Electric Transmission America (ETA)
- ETA is owned 50/50 by American Electric Power and MidAmerican Energy
- AEP has designed, constructed and operated 765kV for almost 40 years

Prairie Wind Transmission



- Prairie Wind was formed to design, construct and operate the first 765kV transmission west of the Mississippi
- SPP's consultant Quanta identified the Prairie Wind project as the logical first step in building a 765kV overlay in the SPP
- Combined with the Tallgrass Project announced by OG&E and ETA, and the ITC project, substantial progress will be made in realizing a transmission "interstate highway" in the SPP

SPP EHV Overlay - Ultimate



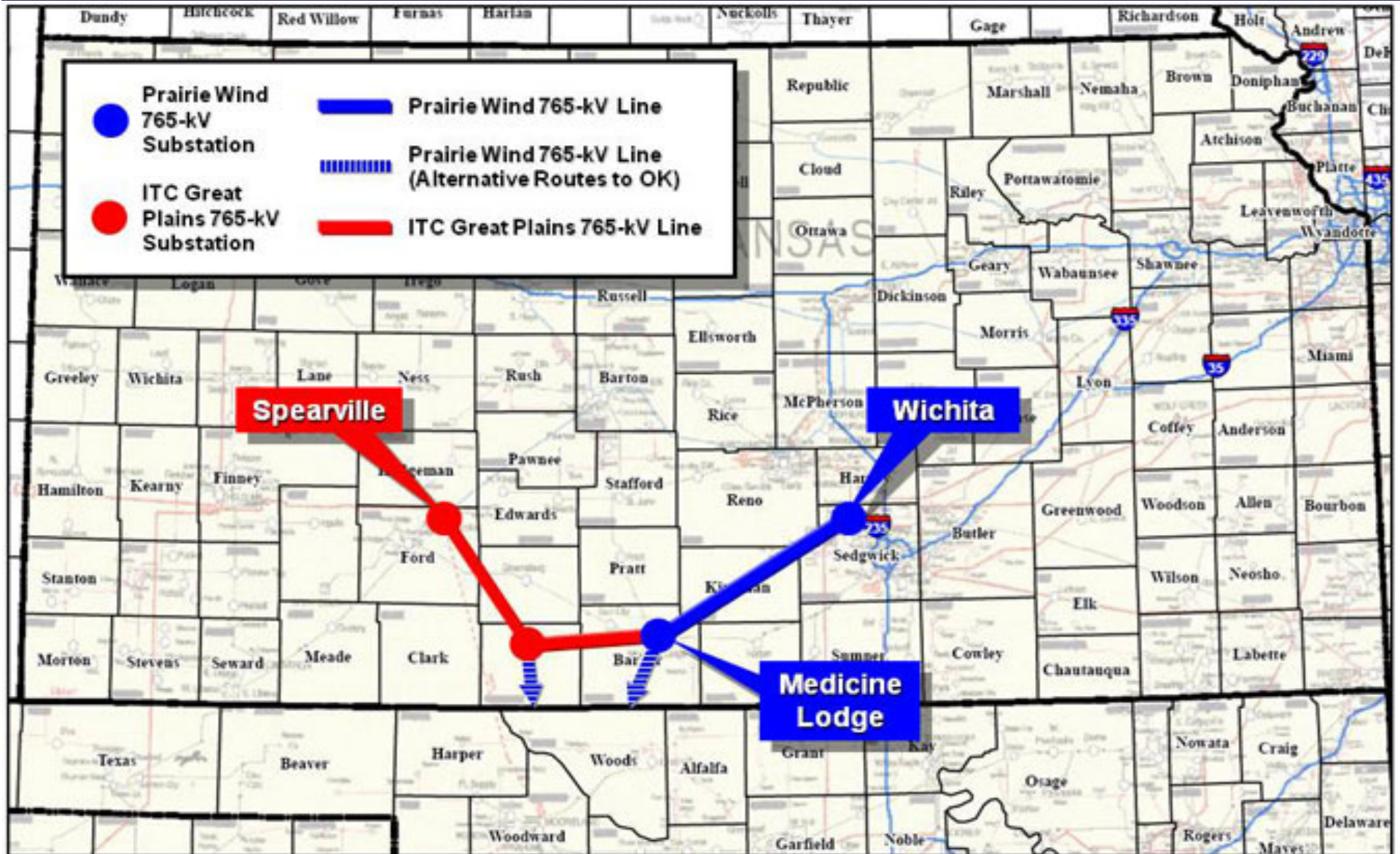
Approved 765 kV Project



■ Prairie Wind Transmission:

- ☞ New 765-345 kV substation in NW Wichita, KS.
- ☞ New 765-345 kV substation NE of Medicine Lodge, KS.
- ☞ New 765 kV transmission line from NW Wichita to Medicine Lodge. (approx. 70 miles)
- ☞ New 765 kV transmission line from Medicine Lodge to the KS/OK border. (approx. 30 miles)

PWT/ITC 765 kV Project



Benefits of Prairie Wind Project



- Enables substantial renewable wind development in western Kansas
- Provides substantial economic development benefits to Kansas via jobs for construction of line and wind farms and royalty payments to landowners
- Enables broader opportunities for energy markets in Kansas thereby lowering power supply costs
- Substantial environmental benefits
- Using 765kV technology results in substantially lower losses on the transmission system and improved reliability

765-kV Value Proposition

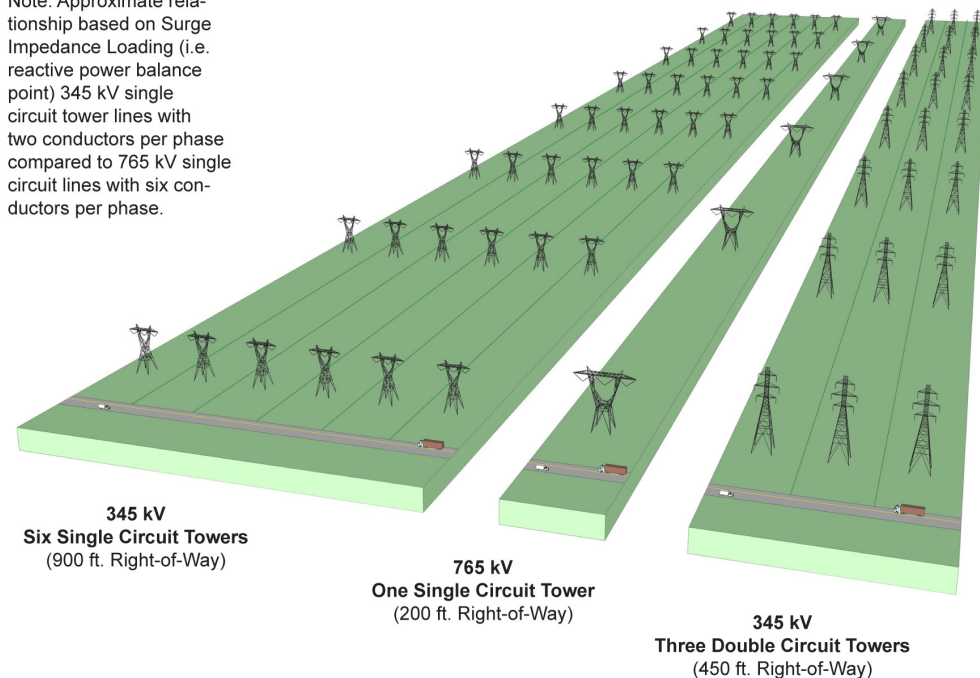


Advanced Technology

- ➡ Advanced six-conductor bundles for higher capacity, lower line losses and reduced noise
- ➡ Fiber-optic shield wires for better protection and control
- ➡ Wide-area monitoring, control, and remote diagnostics
- ➡ Independent-phase operation for improved line performance
- ➡ Line design and right-of-way usage for least environmental impact

Environmental Stewardship

Note: Approximate relationship based on Surge Impedance Loading (i.e. reactive power balance point) 345 kV single circuit tower lines with two conductors per phase compared to 765 kV single circuit lines with six conductors per phase.



More capacity on less land

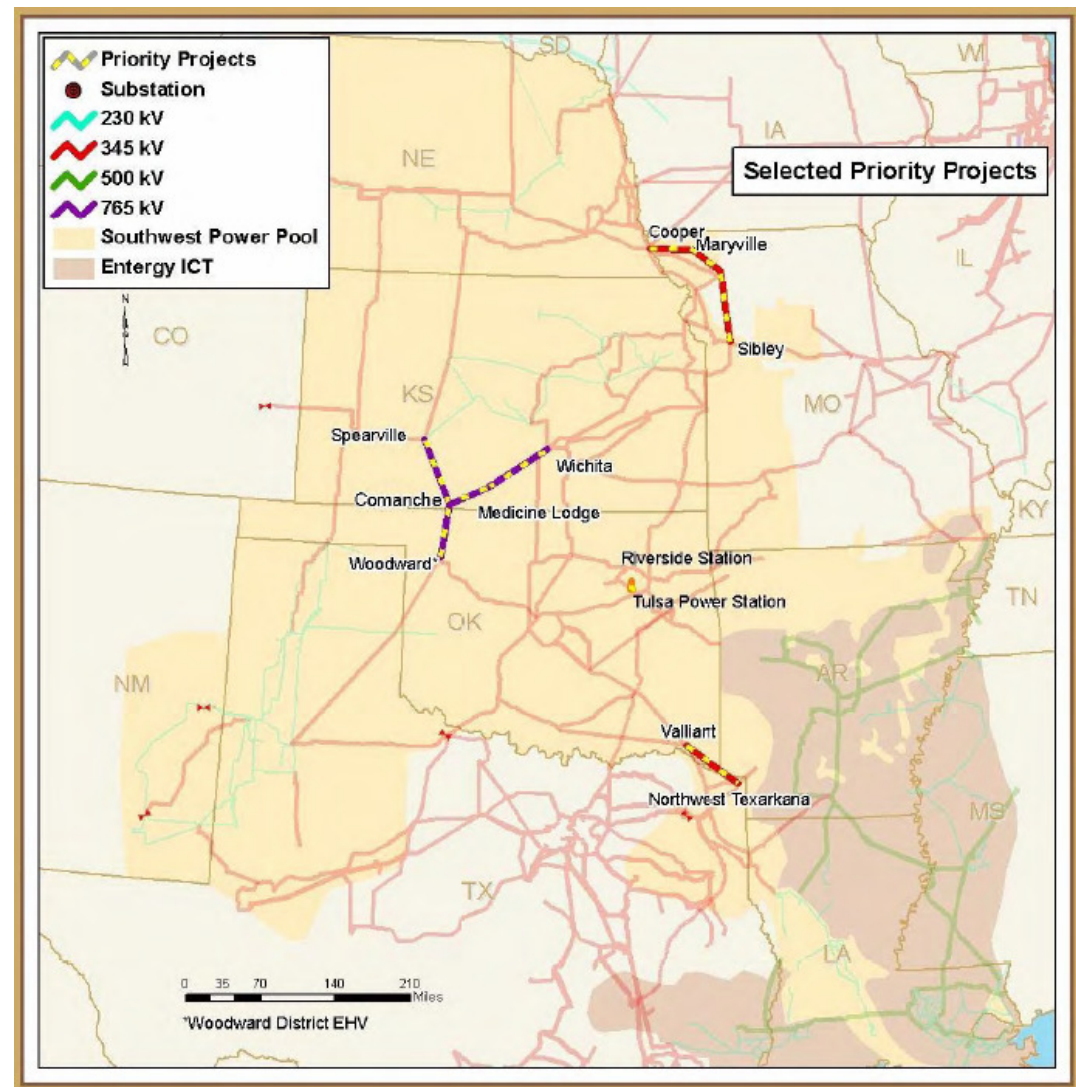
Priority Projects



■ Projects related to Westar

☞ Wichita - Medicine Lodge - Comanche - Spearville.

☞ Comanche/Medicine Lodge - Woodward District EHV.





Questions?